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兰科兜兰属一新种和一新变种

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A new species and a new variety of *Paphiopedilum* (Orchidaceae)

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齿瓣兜兰 新种 图1

Paphiopedilum tridentatum S. C. Chen et Z. J. Liu, sp. nov. Fig. 1

Species nova *Paphiopedilo appletoniano* (Gower) Rolfe similis, a quo bene differt sepalo intermedio subplano ad marginem basis non recurvato, petalis apice tridentatis, staminodio purpureo-nigro praeter marginem et centrum viridulum apice mucronato et sine sinus.

Rhizoma breve. Folia 4 ~ 5, disticha, anguste elliptico-oblonga, 10 ~ 16 cm longa, 1.8 ~ 3.5 cm lata, supra pallido-viridi- et atroviridi-tessellata, infra pallide viridia et ad basin plus minusve purpurea, carinata, apice breviter acuminata, basi in petiolum 1 ~ 2 cm longum conduplicatum contracta. Scapus suberectus, ca. 45 cm longus, purpureo-chocolatinus, dense albo-pubescens, uniflorus; bractea late ovata, ca. 1.4 cm longa, 1.2 cm lata, plus minusve conduplicata, viridula, ad basin purpureo-chocolatina, extus albo-pubescens, apice leviter tridentata; pedicellus cum ovario ca. 6 cm longus, purpureo-chocolatinus, dense albo-pubescens; flos ca. 10 cm in diametro; sepalum intermedium late ovatum, subplanum, ca. 3.2 cm longum, 2.5 cm latum, viride, in dimidio inferiore longitudinaliter purpurello-nervosum, prope basin transverse chocolatino-fasciarium, apice subacutum, dorso albo-puberulum, minute ciliatum; synsepalum ovatum, concavum, ca. 2.6 cm longum, 1.6 cm latum, viride, obscure longitudinaliter purpurello-nervosum, dorso albo-puberulum, minute ciliatum; patala spathulata, ca. 5 cm longa, 2.1 cm lata, in dimidio superiore purpurella, infra medium viridi-purpurella et nigro-punctata, apice subrotundata et tridentata, basi ventrali villosa, minute ciliata; labellum galeiformi-saccatum, ca. 4.6 cm longum, viridi-purpurellum, sacco obovato-oblongo ca. 2.4 cm longo 1.8 cm lato extus glabro ad basin interiorem villoso, ungue ca. 2.2 cm longo 1.2 cm lato, lobis lateralibus incurvis verruculatis; staminodium fere transverse elliptico-oblongum, ad basin leviter angustatum, ca. 8 mm longum, 10 mm latum, apice mucronatum, basi auriculatum, purpureo-nigrum praeter marginem et centrum viridulum.

Vietnam (越南). without precise locality (无详细地点), cult. plant, 2001-03-28, Z. J. Liu 20141 (holotype, here designated, in Herbarium, Shenzhen City Wutongshan Nurseries).

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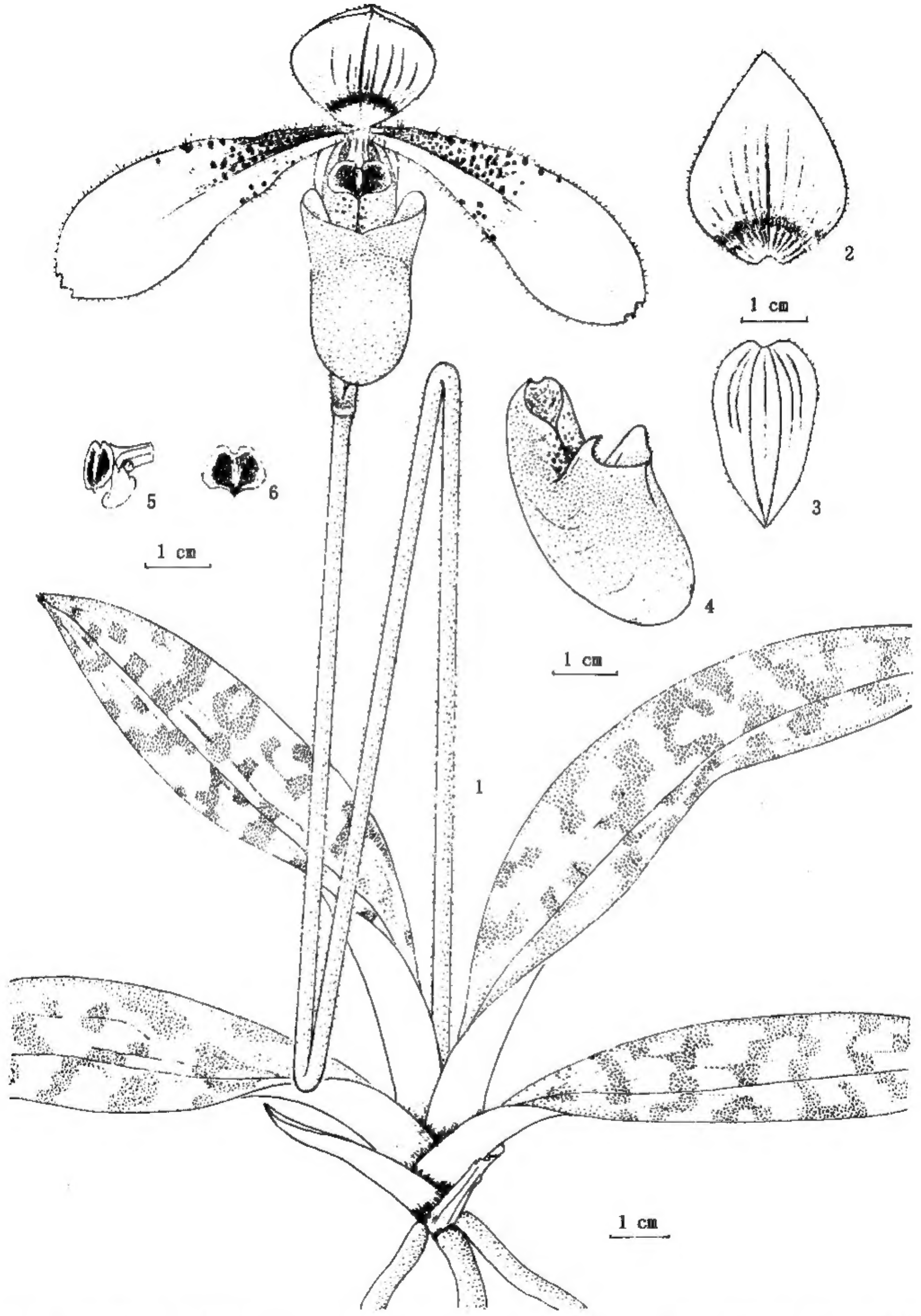


图1 齿瓣兜兰 1. 带花植株; 2. 中萼片, 正面观; 3. 合萼片, 正面观; 4. 唇瓣, 侧面观; 5. 蕊柱, 侧面观; 6. 退化雄蕊, 正面观。

Fig. 1 *Paphiopedilum tridentatum* S. C. Chen et Z. J. Liu 1. Flowering plant; 2. Dorsal sepal, front view; 3. Synsepal, front view; 4. Lip, side view; 5. Column, side view; 6. Staminode, front view.

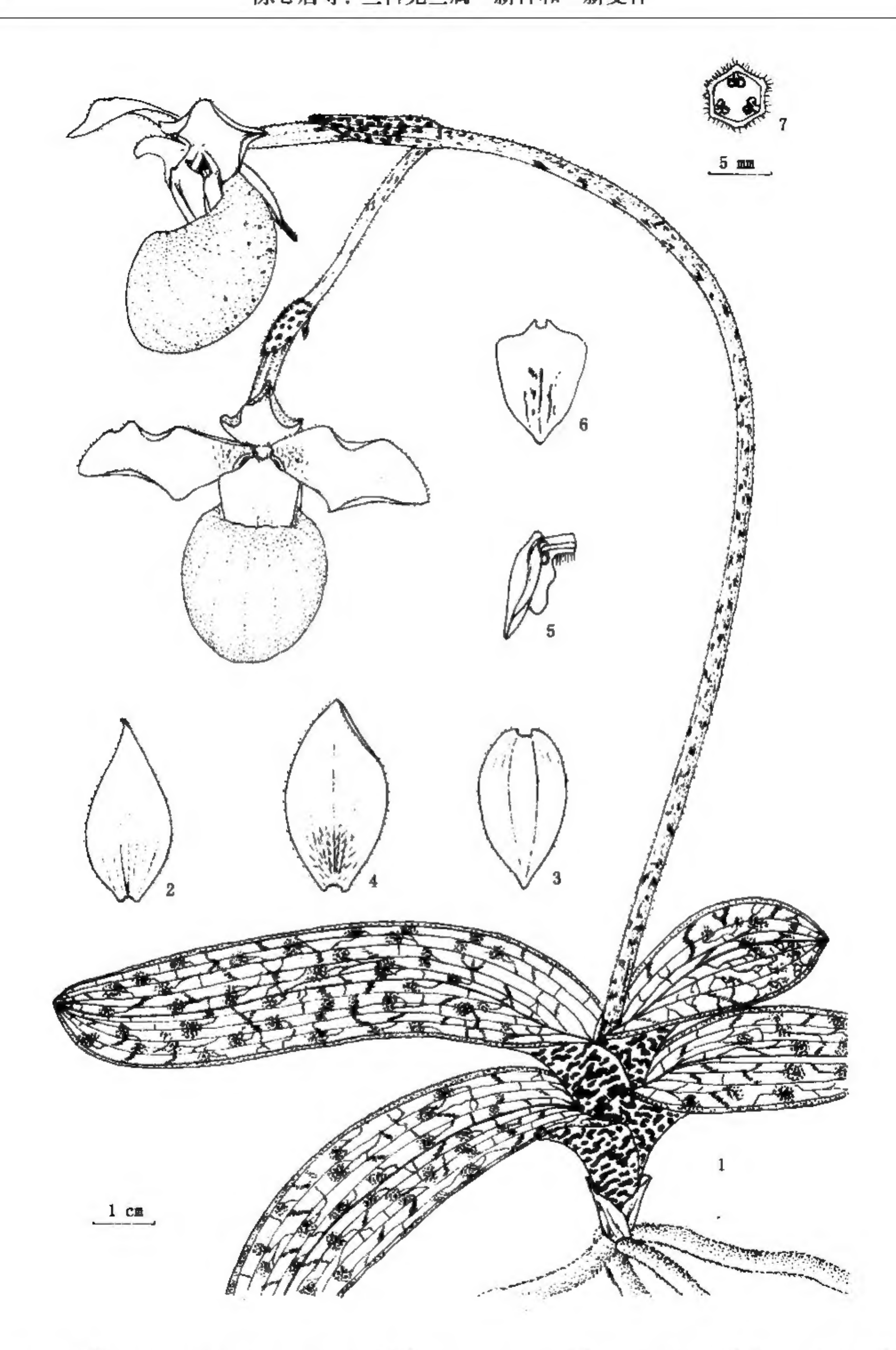


图2 浅黄兜兰(变种) 1. 带花植株；2. 中萼片，正面观；3. 合萼片，正面观；4. 花瓣，正面观；5. 蕊柱，侧面观；6. 退化雄蕊，正面观；7. 子房，横切面。

Fig. 2 *Paphiopedilum armeniacum* S. C. Chen et F. Y. Liu var. *undulatum* Z. J. Liu et J. Y. Zhang 1. Flowering plant; 2. Dorsal sepal, front view; 3. Synsepal, front view; 4. Petal, front view; 5. Column, side view; 6. Staminode, front view.; 7. Ovary cross section.

根状茎短。叶4~5枚,二列,狭椭圆状矩圆形,长10~26 cm,宽1.8~3.5 cm,上面具有深浅绿色相间的网格斑,背面浅绿色并在基部多少具紫晕,有龙骨状突起,先端短渐尖,基部收狭成柄;柄长1~2 cm,对褶。花葶近直立,长约45 cm,紫栗色,密被白色短柔毛,具1花;花苞片宽卵形,长约1.4 cm,宽1.2 cm,多少对褶,绿色,基部紫栗色,背面被白色短柔毛,先端稍具3小齿;花梗和子房长约6 cm,紫栗色,密被白色短柔毛;花直径约10 cm;中萼片宽卵形,近平坦,长约3.2 cm,宽约2.5 cm,绿色,下半部具浅紫色纵脉,近基部具一条横的栗色带,先端近急尖,背面有白色细柔毛,边缘具细缘毛;合萼片卵形,凹陷,长约2.6 cm,宽1.6 cm,绿色,有模糊的淡紫色纵脉,背面被白色细柔毛,边缘具细缘毛;花瓣匙形,长约5 cm,宽2.1 cm,淡紫色,中部以下为带绿的淡紫色并有黑色斑点,先端近浑圆并有3小齿,内面基部有长柔毛,边缘具细缘毛;唇瓣盔状囊形,长约4.6 cm,带绿的淡紫色;囊倒卵状矩圆形,长约2.4 cm,宽1.8 cm,外面无毛,内面基部有长柔毛;柄长约2.2 cm,宽1.2 cm,内弯的侧裂片上有小疣状突起;退化雄蕊近横椭圆状矩圆形,基部稍狭,长约8 mm,宽10 mm,先端具短尖头,基部有耳,紫黑色,但边缘与中央淡绿色。

此新种与卷萼兜兰 *Paphiopedilum appletonianum* 有亲缘关系,但本新种中萼片近平坦,基部两侧边缘不反卷;花瓣先端具3小齿;退化雄蕊除边缘与中央外均紫黑色,先端具短尖头,不具弯缺,易于分辨。

浅黄兜兰 新变种 图2

Paphiopedilum armeniacum S. C. Chen et F. Y. Liu var. **undulatum** Z. J. Liu et J. Y. Zhang, var. nov. Fig. 2

A typo differt floribus plerumque duobus minoribus 4.5~5 cm in diametro flavidis, petalis 1.4~1.7 cm latis ad maginem valde undulatis.

China. Western **Yunnan** (云南西部): without precise locality(无详细地点), cult. plant, 2001-03-17. Z. J. Liu 21317 (holotype, here designated, in Herbarium, Shenzhen City Wutongshan Nurseries).

新变种区别于原变种在于:花通常2朵,较小,直径4.5~5 cm,淡黄色;花瓣宽1.3~1.7 cm,边缘明显波状。

In the present paper two new taxa, *Paphiopedilum tridentatum* S.C. Chen et Z. J. Liu and *Paphiopedilum armeniacum* S. C. Chen et F. Y. Liu var. *undulatum* Z. J. Liu et J. Y. Zhang, are described and diagnosed respectively. *Paph. tridentatum* is a Vietnamese species, very similar to *Paph. appletonianum* (Gower) Rolfe at first glance, but their floral structure is quite different from each other. The new species has a nearly flat dorsal sepal, tridentate-tipped petals and an almost purple-black staminode with mucronate apex, while *Paph. appletonianum* possesses a dorsal sepal strongly recurved along its basal margins, edentate petals and a greenish staminode with a clear sinus at its apex. *Paph. armeniacum* var. *undulatum* is said to be collected from western Yunnan. It differs from *Paph. armeniacum* var. *armeniacum* by having usually two yellowish flowers 4.5~5 cm across, and strongly undulate-margined petals 1.4~1.7 cm wide. Thw two new taxa are both cultivated plants, which were transplanted from a nursery in southwestern Yunnan.

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